ABSTRACT OF THE DISCLOSURE

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A sterilizing air filter has a casing, a base, multiple spray devices, a 2 cover, multiple fans and multiple bent tubes. The casing has an inlet and an outlet. 3 The base is mounted in the casing and has multiple chambers in the base. 4 Disinfectant can be poured into the chambers. The spray devices respectively 5 mounted in the chambers and the cover fitted on the base are both used for 6 spraying disinfectant in the chamber. The multiple fans and the multiple bent 7 tubes are used for spreading the sprayed disinfectant between the different 8 chambers and out to the air. The sterilizing air filter not only sucks the air into the 9 microbial filter for sterilization and filtration but also automatically sprays the 10 disinfectant out to the air to kill microbes in the air. 11